Geometry honors problem sets

Quadrilateral properties and midsegments

***PQRS is a parallelogram. Find the values of a, b, x, and* y.**

1. 2. 3.

***SLTM is a rhombus.***

4. If , find the measures of , , , and .

5. If  and  find the value of .

6. If  and  find the value of .

***FLAT is rectangle.***

7. If , find the measures of , , and .

8. If , find LO.

9. If  and , find the value of .

***Find the value of x.***

10.



***TA=AB=BC and TD=DE=EF.***

11. If , then \_\_\_\_\_\_\_ and \_\_\_\_\_\_\_.

12. If  and , then \_\_\_ and \_\_\_.

13. If , , and , then \_\_\_ and \_\_\_.

14. ABCD is a trapezoid with median . If  and , find ME, FN, and EF.

 b) Prove 

c) If , , and , find *x*.